Suntan_® Su_®

KBP2005 THRU KBP210

2A SINGLE-PHASE BRIDGE RECTIFIERS RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts

FEATURES

- ◆ Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory

flammability recognition 94V-0

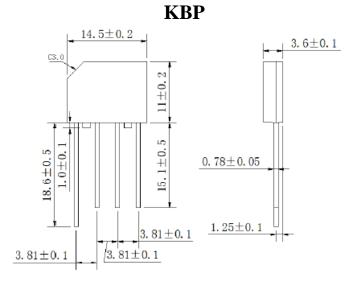
- ◆Built-in printed circuit board stand-offs
- ♦ High case dielectric strength
- ♦ High temperature soldering guaranteed 265 °C/10 seconds at
- 5 lbs (2.3kg) tension

MECHANICAL DATA

◆Case: Reliable low cost construction utilizing molded plastic technique

◆ Terminals: Plated Leads solderable per MIL-STD-202, Method 208

♦ Mounting Position: Any



Dimensions in millimeters (1mm=0.0394")

MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified, Resistive or inductive load, 60Hz. For Capacitive load derate current by 20%.

CHARACTERISTICS	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	
Maximum average forward rectified output current at TA=40 $^\circ\!\!\mathbb{C}$	I _{F(AV)}	2.0							А
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	60							А
Operating junction and storage temperature range	T _{j,} Tstg	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

Rating at 25 ambient temperature unless otherwise specified, Resistive or inductive load, 60Hz.

For Capacitive load derate by 20%.

Parameter	SYMBOL	KBP2005	KBP201	KBP202	KBP204	KBP206	KBP208	KBP210	UNIT
Maximum instantaneous forward voltage drop per leg at 2.0A	$V_{\rm F}$	1.1						V	
Maximum DC reverse current at rated TA=25°C DC blocking voltage per element TA=125°C	I _R	10 500						μΑ	

Note:

1. Thermal resistance from Junction to Ambemt on P.C. board mounting.

2. Measured at 2.0 MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTIC CURVES ($T_A=25^{\circ}C$ Unless otherwise noted)

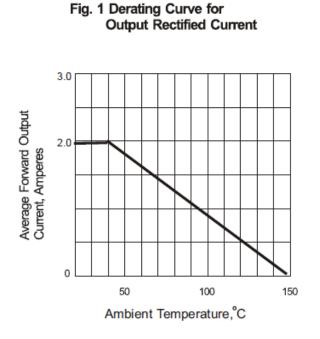


Fig. 3 Typical Instantaneous Forward Characteristics

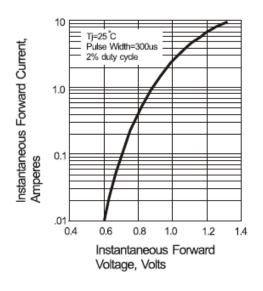
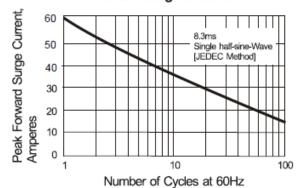
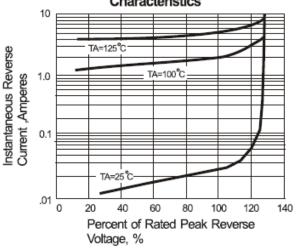


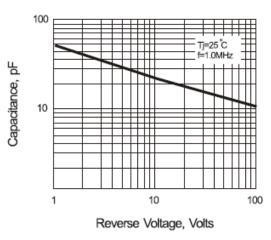
Fig. 2 Maximum Non-repetitive Peak Forward Surge Current











Note: Specifications are subject to change without notice. For more detail and update, please visit our website.